



Web Technologies: Theory & Practical

Author :	Raman Dugyala
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Product Description

Web Technologies: Theory & Practical Web Technologies: Theory & Practical's is a textbook specially designed for Diploma students of Computer Science. The book provides a comprehensive coverage of complete range of topics taught in this course. The text is supported by numerous illustrations, examples, program codes, screenshots Divided into Five chapters, the book first introduces the basic concepts such as protocols, Web programmers, Web development tools, and Web designing. The second chapter focuses on Web systems architecture, Proxies, Load balancers, Caches and Queues. The third chapters deal with java script and DHTML. Advanced scripting objects were discussed in the fourth Part. Chapter five deals with PHP and related concepts. With its clear presentation and inclusion of numerous real-world examples, codes and QR codes the book will be equality useful for web professionals. **Salient features:**

- Content of the book aligned with the mapping course outcomes, programs and Units Outcomes.
- In the beginning of each unit learning outcomes are listed to make the student understand what is expected out of him/her after completing that unit.
- Book provides lots of recent information, interesting facts, QR code for E-resources, QR code for use of ICT, projects, group discussion etc.
- Student and teacher centric subject materials included in book with balanced and chronological manner.
- Figures, tables, and software screen shots are inserted to improve clarity of the topics.
- Apart from essential information a 'know more' section is also provided in each unit to extend the learning beyond syllabus.
- Short questions, objective questions and long answer exercises are given for practice of students after every chapter.
- Solved and unsolved problems including numerical examples are solved with systematic steps.



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Foreword Acknowledgement Preface Outcome Based Education Course Outcomes Guidelines for Teachers Guidelines for Students

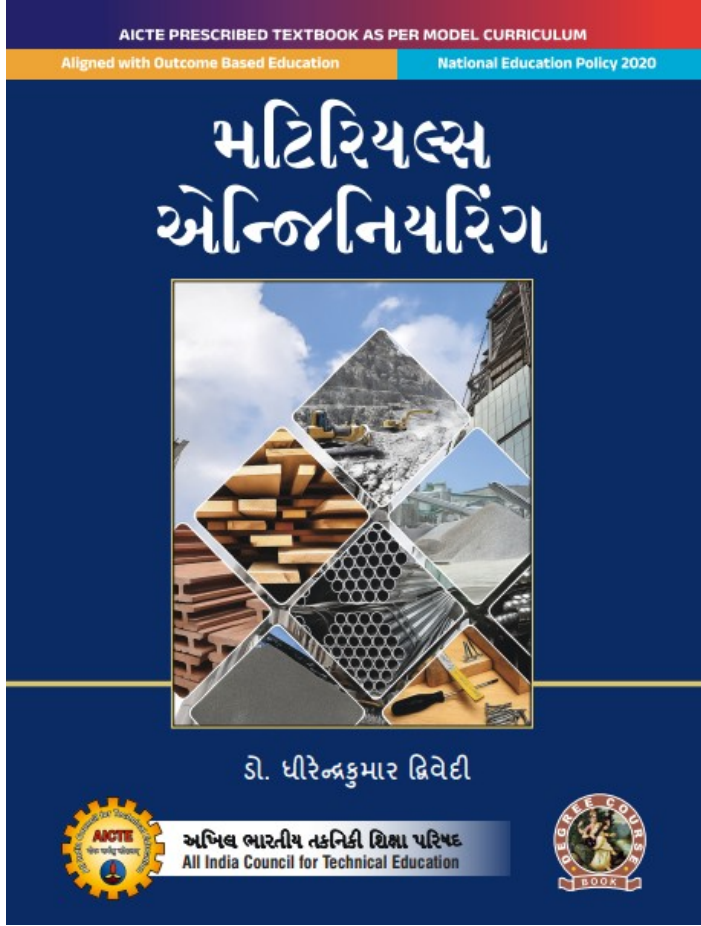
- Introduction to WWW
- Web system architecture
- Java Script Introduction
- Advance scripting
- PHP

Unit summary Exercise References and suggested reading References and further learning CO and PO Attainments Table Index

Author

Dr. Raman Dugyala Professor, Computer Science Engineering Chaitanya Bharathi Institute of Technology, Gandipet Hyderabad, Telangana - 500075





Materials Engineering

Author :	Dheerendra Kumar Dwivedi
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Product Description

Materials Engineering Materials play very important in development of efficient and reliable products, and systems leading to the improved life of society. Material affects the design and manufacturing of products and systems significantly. Therefore, it is extremely important for mechanical, production, manufacturing and material engineers to have a systematic understanding on fundamental of material science affecting microstructure and mechanical properties coupled techniques and approaches available to modify and improve properties as per need of application. The book entitled “Materials Engineering” developed as per model curriculum of AICTE for 4th semester student of subject Materials Engineering **Salient Features:**

- Content of the book aligned with the mapping of Course Outcomes, Programs Outcomes and Unit Outcomes.
- In start of each unit learning outcomes are listed to make the student understand what is expected out of him/her after completing that unit.
- Book provides lots of recent information, interesting facts, QR Code for E resources, QR Code for use of ICT, projects, group discussion etc.
- Student and teacher centric subject materials included in book with balanced and chronological manner.
- Figures, tables, and software screen shots are inserted to improve clarity of the topics.
- Apart from essential information a 'Know More' section is also provided in each unit to extend the learning beyond syllabus.
- Short questions, objective questions and long answer exercises are given for practice of students after every chapter.
- Solved and unsolved problems including numerical examples are solved with systematic steps



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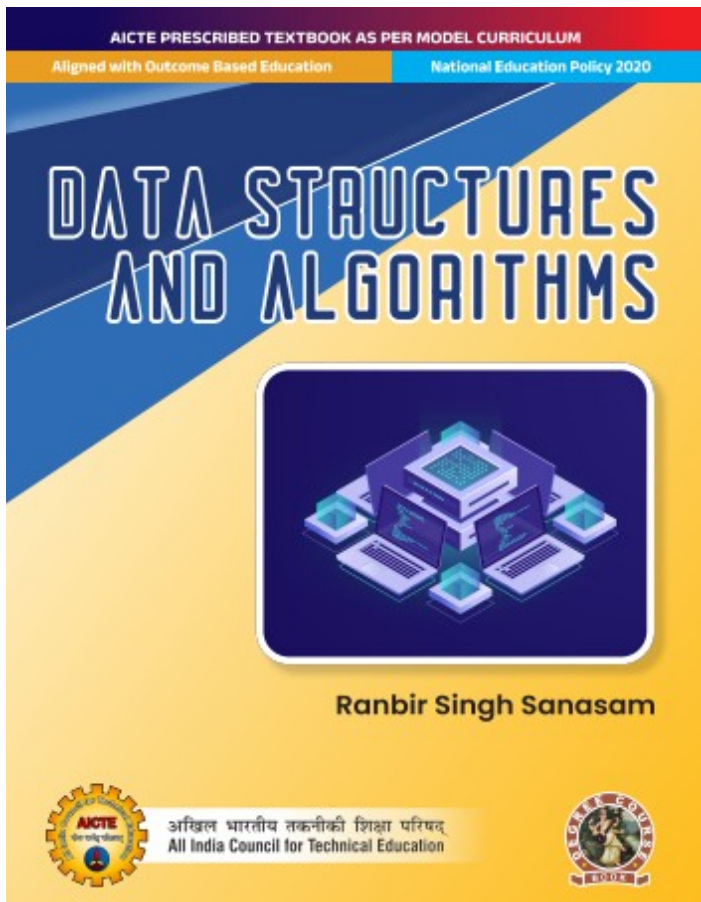
- Fundamental of Material Science
- Mechanical Properties of Materials
- Theories of Failures Under Static Loading and Fatigue Behaviour
- Phase Diagram and Metallurgical Transformation
- Heat Treatment of Steel
- Common Engineering Metals: Mechanical Properties and Manufacturing

Unit Summary Exercises Practical Know More References and Suggested Readings

Author

Dr. Dheerendra Kumar Dwivedi Professor, Dept. of Mechanical & Industrial Engineering IIT Roorkee





Data Structure and Algorithms

Author :	Ranbir Singh Sanasam
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Publisher :	Khanna Publishing House
M.R.P :	Rs 598.00
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Condition Type :	New
Country Origin :	India

Product Description

Data Structure and Algorithms This book has been written considering the specific topics recommended by AICTE, in a very systematic and orderly manner. The fundamental concept of each topic recommended in the curriculum has been explained in an easy-to-understand manner with appropriate illustrative pictorial examples, algorithms, and program segments. The examples provide insights to the subject matter aligned with latest model curriculum of the AICTE, followed by the concept of outcome-based education as per the New Education Policy (NEP)-2020. At the end of each unit, a set of exercise problems is given for self-practice. A dedicated web site is also created for this book, where additional reading materials, source codes of various practice problems, additional exercise problems, and other resources are provided. The site can be accessed through the following URL: [https://www.iitg.ac.in/ranbir/books/ DSA/index.html](https://www.iitg.ac.in/ranbir/books/DSA/index.html). This site will be updated regularly, and readers are encouraged visit the site for additional updates. **Salient Features:**

- The content of the book is aligned with the mapping of Course Outcomes, Program Outcomes, and Unit Outcomes.
- In the beginning of each Unit, learning outcomes are listed to make the readers understand what is expected outcome after reading the unit.
- At the end of each Unit, a QR code is provided for exploring additional E-resources.
- Pictorial explanations, algorithms, work out examples are provided for ease of understanding of the topics.
- Objective questions, short questions, practice questions are provided for practice.

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- Introduction
- Array, Stack, and Queue
- Linked List and Trees
- Sorting, Hash and Graph

CO and PO Attainment Table Index



Author

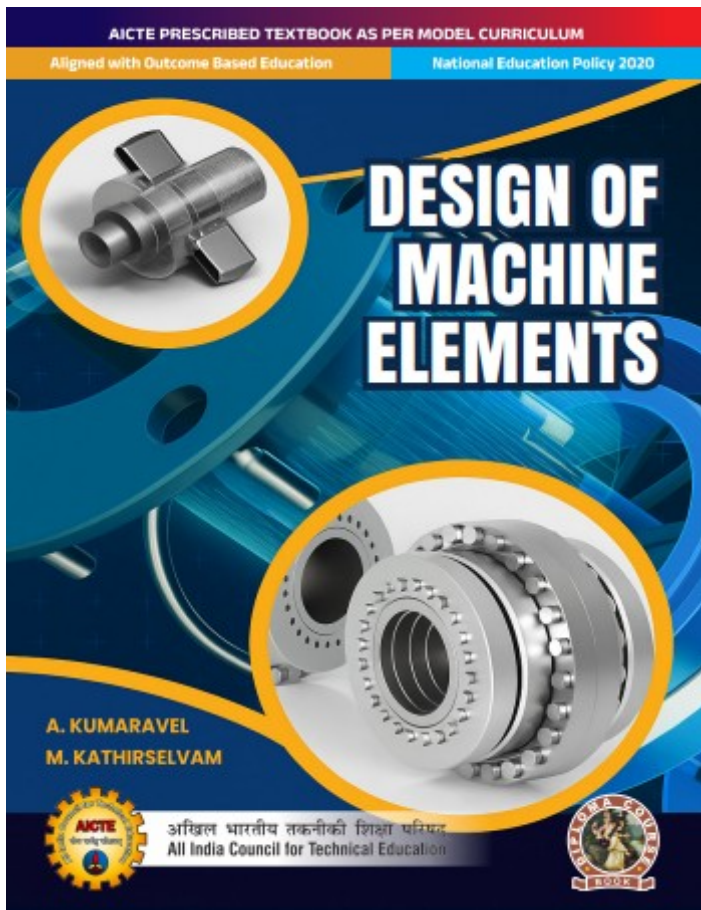
Dr. Ranbir Singh Sanasam Professor, Department of Computer Science and Engineering, IIT Guwahati, Assam



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Design of Machine Elements

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Country Origin :	India

Product Description

Design of Machine Elements This book gives detailed description about introduction to design, simple machine part design, antifriction bearings, shafts, keys, couplings and spur Gears, Power screws springs, fasteners, ergonomics & aesthetic consideration in design. Logical organization and a wide variety of problems with their step-by-step solutions makes this book a perfect offering on the subject. Salient Features

- Content of the book aligned with the mapping of course Outcomes (Cos), programs Outcomes (Pos) and Unit Outcomes (UOs).
- In the beginning of each unit outcomes are listed to make the student understand what is expected out of him/her after completion of that unit.
- Book provides lots of recent information, interesting facts, QR codes for E-resources, etc.
- Student and teacher centric subject materials included in book with balanced and chronological manner.
- Figures and tables are inserted to improve clarity of the topics.
- Short questions, objective questions and long answer exercises are given for practice of students after every chapter.
- step-by-step solutions are provided for solved problems, including numerical examples.

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Foreword Acknowledgement Preface Outcome Based Education Course Outcomes Guidelines for Teachers Guidelines for Students Abbreviations and Symbols List of Figures List of Tables

- Introduction of design
- Design of simple machine parts & antifriction bearings
- Design of shafts, keys, couplings and spur gears
- Design of power screws and springs
- Design of Fasteners and Ergonomic Considerations

Appendix CO And PO Attainment Table Index



Author

Dr. A. Kumaravel Professor Department of Mechanical Engineering K.S.Rangasamy College of Technology **Dr. M. Kathirselvam** Associate Professor Department of Mechanical Engineering K.S.Rangasamy College of Technology



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AICTE PRESCRIBED TEXTBOOK AS PER MODEL CURRICULUM

Aligned with Outcome Based Education

National Education Policy 2020

INDUCTION, SYNCHRONOUS, AND SPECIAL ELECTRICAL MACHINES



K. Selvajyothi | S. Tamilselvi | Sarat Kumar Sahoo



अखिल भारतीय तकनीकी शिक्षा परिषद्
All India Council for Technical Education



Induction, Synchronous, and Special Electrical Machines

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Product Description

Induction, Synchronous, and Special Electrical Machines This book, “induction, Synchronous, and special Electrical Machines” is crafted with a primary focus on the comprehensive understanding of electrical machines, catering to the needs of diploma students in electrical and electronics engineering. Whether you are a student embarking on your academic journey, an instructor guiding aspiring minds, or a practitioner in the field, this book aims to be your reliable companion. Salient features:

- Content of the book aligned with the mapping course outcomes, programs and Units Outcomes.
- In the beginning of each unit learning outcomes are listed to make the student understand what is expected out of him/her after completing that unit.
- Book provides lots of recent information, interesting facts, QR code for E-resources, QR code for use of ICT, projects, group discussion etc.
- Student and teacher centric subject materials included in book with balanced and chronological manner.
- Figures, tables, and software screen shots are inserted to improve clarity of the topics.
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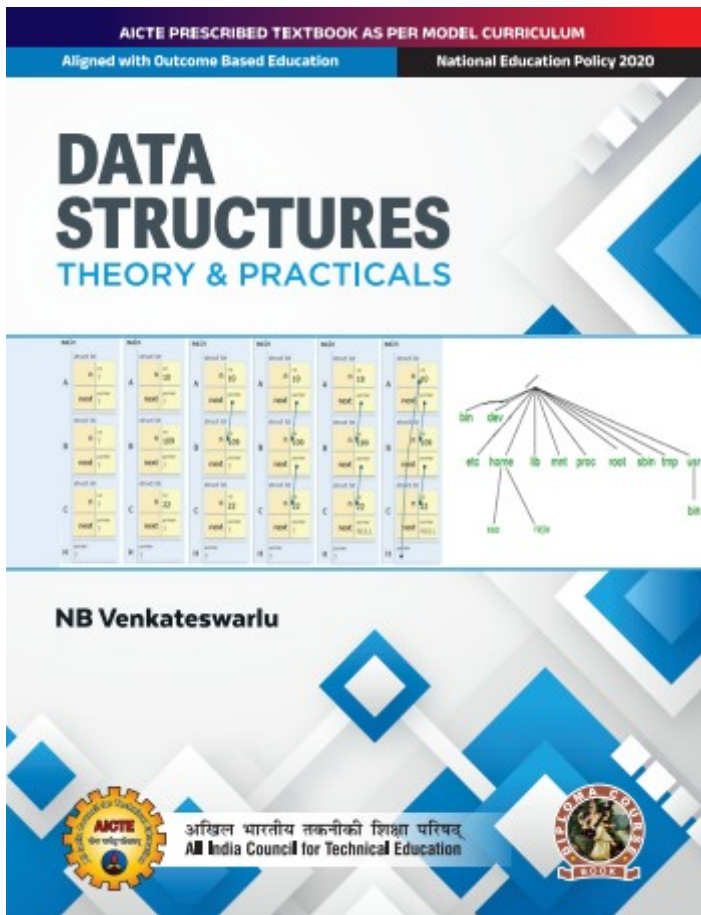
- Three- Phase Induction Motor- Working and Construction
- Three- Phase Induction Motor- T-N Characteristics
- Three- Phase Induction Motor -Starting and Speed Control
- Single-Phase Induction Motors
- Three Phase Alternator – Working and Construction
- Three Phase Alternator – Voltage Regulation
- Synchronous Motor
- Fractional Horsepower (FHP) Motors – Working and Construction

Appendices References For Further Learning CO And PO Attainment Table Index

Author

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Data Structures: Theory & Practicals

- Author :** NB Venkateswarlu
- ISBN 13 :** 978-93-55387-68-4
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- Year :** 2026
- Language :** English
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- Categories :** [AICTE Prescribed Textbooks, English Books](#)
- Condition Type :** New
- Country Origin :** India

Product Description

Data Structures: Theory & Practicals This book introduces data structures to the reader. Data structures is one of the vital courses in computer science, information technology curriculum across various programs. This book introduces how to write programs of design the algorithms that utilizes available CPU time and RAM (memory) in the most optimal manner. Concepts such as data abstraction, stacks, queues, linked lists, binary trees, graphs are introduced in the lucid manner along with practical examples. The content of this book is very much aligned with the outcome-based education as per national education policy (NEP) 2020. Salient features:

- Content of the book aligned with the mapping course outcomes, programs and Units Outcomes.
- In the beginning of each unit learning outcomes are listed to make the student understand what is expected out of him/her after completing that unit.
- Book provides lots of recent information, interesting facts, QR code for E-resources, QR code for use of ICT, projects, group discussion etc.
- Student and teacher centric subject materials included in book with balanced and chronological manner.
- Figures, tables, and software screen shots are inserted to improve clarity of the topics.
- Apart from essential information a 'know more' section is also provided in each unit to extend the learning beyond syllabus.
- Short questions, objective questions and long answer exercises are given for practice of students after every chapter.
- Solved and unsolved problems including numerical examples are solved with systematic steps.

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Foreword Acknowledgement Preface Outcome Based Education Course Outcomes Guidelines for Teachers Guidelines for Students Abbreviations and Symbols List of Figures List of Tables

- Introduction to Data Structures.
- Stacks and Queues.
- Linked Lists.
- Non-Linear Data Structures.



Author

NB VENKATESWARLU



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ಮಾದರಿ ಪಠ್ಯಕ್ರಮದ ಅನುಸಾರ ಎಐಸಿಟಿಇ ಶಿಫಾರಸು ಮಾಡಿರುವ ಪಠ್ಯಪುಸ್ತಕ

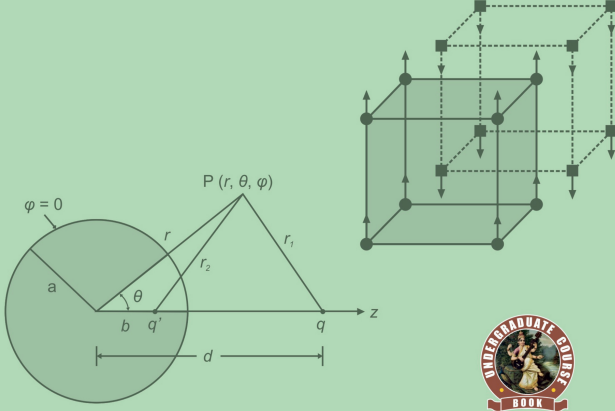
ಫಲತಾಂಶ ಆಧಾರಿತ ಶಿಕ್ಷಣದೊಂದಿಗೆ ಹೊಂದಿಸಲಾಗಿದೆ

ರಾಷ್ಟ್ರೀಯ ಶಿಕ್ಷಣ ನೀತಿ 2020

ಭೌತಶಾಸ್ತ್ರ

ವಿದ್ಯುತ್ಕಾಂತೀಯ ಸಿದ್ಧಾಂತದ ಪರಿಚಯ

(ಲ್ಯಾಬ್ ಕೈಪಿಡಿಯೊಂದಿಗೆ)



ಎ. ಬಿ. ಭಟ್ಟಾಚಾರ್ಯ ಅತನು ನಾಗ್

Physics (Introduction to Electromagnetic Theory) (with Lab Manual)

Author : A. B. Bhattacharya

ISBN 13 : 978-93-91505-86-8

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Product Description

Engineering Physics: Introduction to Electromagnetic Theory has been written for the first year students of B. Tech Engineering Degree Courses of all Indian Universities following the guideline and syllabus as recommended by AICTE. The book, written in a very simple and lucid way, will be very much helpful to reinforce understanding of different aspects to meet the engineering student's needs. Writing a text-cum manual of this category poses several challenges providing enough content without sacrificing the essentials, highlighting the key features, presenting in a novel format and building informative assessment. This book on engineering physics will prepare students to apply the knowledge of Electromagnetic Theory to tackle 21st century and onward engineering challenges and address the related questions. Some Salient Features of the Book: 1. Expose basic science to the engineering students to the fundamentals of physics and to enable them to get an insight of the subject. 2. To develop knowledge on critical questions, solved and supplementary problems covering all types of medium and advanced level problems in a very logical and systematic manner. 3. Some essential information for the users under the heading "know More" for clarifying some basic 4. Information as well as comprehensive synopsis of formulae for a quick revision of the basic principles. 5. Constructive manner of presentation so that an Engineering degree students can prepare to work in different sector or in national laboratories at the very forefront of technology.

Table of Contents

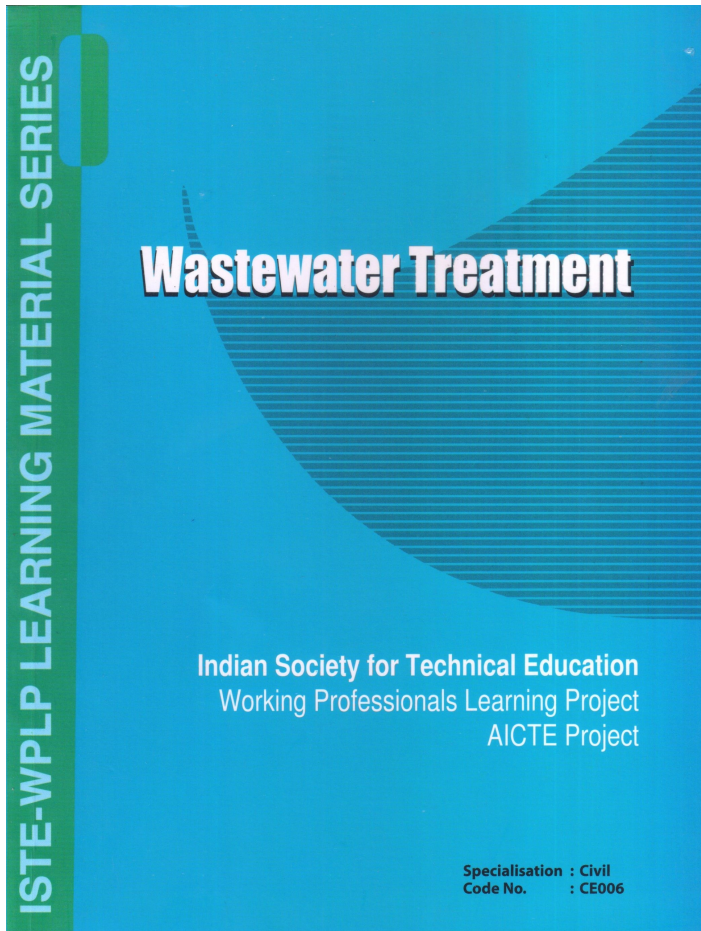
Foreword Acknowledgement Preface Outcome Based Education Course Outcomes Abbreviations and Symbols List of Figures Guidelines for Teacher Guidelines for Students Unit 1: Electrostatics in Vacuum. Unit 2: Electrostatics in Linear Dielectric Medium. Unit 3: Magnetostatics. Unit 4: Magnetostatics in Linear Dielectric Medium. Unit 5: Faraday's Law. Unit 6: Maxwell's Equations. Unit 7: Electromagnetic Waves. Table of Physical Constants Appendices Annexures References for Further learning CO and PO attainment Table Index



Authors

Prof. A. B. Bhattacharya, Pro-Vice-Chancellor of JIS University, did his M. Sc. and Ph. D. degree in Physics from the University of Calcutta. He did his Post-doc from the Massachusetts Institute of Technology, USA and subsequently joined in the Department of Physics, Kalyani University. He has published 256 Research papers in high-impact Journals and over 150 proceeding papers in conferences. He has successfully guided 24 scholars for their Ph.D. and has written a large number of invited articles in many Journals. He is the author of 29 textbooks written for engineering and science students and also for general readers from many reputed publishers like Infinity Science Press, Taylor & Francis, etc. International Institute of Success Awareness honored him with their most coveted Institutional and globally reputed “Glory of India Gold Medal” for remarkable contributions to India’s national prestige. He is a Life Fellow of the Institution of Electronics and Telecommunication Engineers. **Dr. Atanu Nag** did his M. Sc. in 2007 and Ph. D. in 2013 from the University of Kalyani. He has published over 50 Journal papers and 5 books for Science & Engineering students. Presently he is the Head and Associate Professor in the Department of Physics, Modern Institute of Engineering & Technology, Hooghly, West Bengal.





Wastewater Treatment

Author :	P. N. Ravindra
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Product Description

This book written under working professional learning projects is with the intention of providing sufficient information and knowledge about the principles of wastewater treatment to the water works engineers. This book comprehensively deal with the basics of wastewater treatment, laying emphasis on current trends. To convey ideas and concepts more clearly, the book contains descriptive diagrams with suitable explanation. The book covers a broad spectrum of material dealing with wastewater treatment, as it is far more than just an update of the existing books on wastewater treatment, which includes the latest concepts and processes. The topics presented can be useful not only to the wastewater engineers, but also to the plant operators, and managers who are in the public utilities. This learning material will also be a useful reference book for planners, administrators, students and general readers. It will be of interest to those non-technical staff, who wish to understand technical issues relating to wastewater treatment. One who reads this book systematically from chapter one will surely acquire an understanding on the concepts of wastewater treatment, including schemes of treatment.



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FOREWORD**PREFACE****Chapter 1:** Wastewater.**Chapter 2:** Wastewater Treatment.**Chapter 3:** Preliminary and Primary Treatment Units.**Chapter 4:** Sedimentation.**Chapter 5:** Biological Treatment Processes.**Chapter 6:** Activated Sludge Process.**Chapter 7:** Advanced Wastewater Treatment.**Chapter 8:** Natural Treatment System.**Chapter 9:** Residual Management.**Chapter 10:** Membrane Treatment Systems.**References,****Glossary,****Abbreviations**

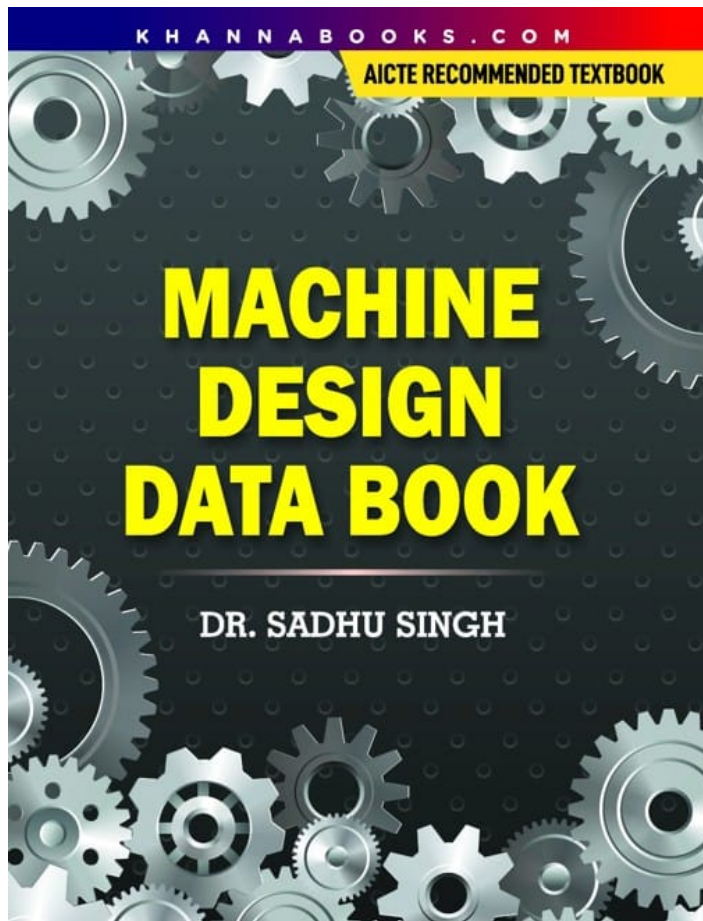
Author

The author of this book is working as Assistant Executive Engineer for Bangalore Water Supply and Sewerage Board (BWSSB) and has more than 25 years of working experience in the field of water wastewater treatment. He has written several books in water discipline and published several research papers. It is a matter of pride and privilege for the author to write a book for his fellow engineers, who can making this book worthwhile.

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Machine Design Data Book

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Condition Type :	New
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Product Description

The book shall be useful to the students and teacher of all Indian Universities and Institutions in the branches of mechanical Engineering, Production Engineering, Aeronautical Engineering, Agricultural Engineering, Chemical Engineering and other allied branches.



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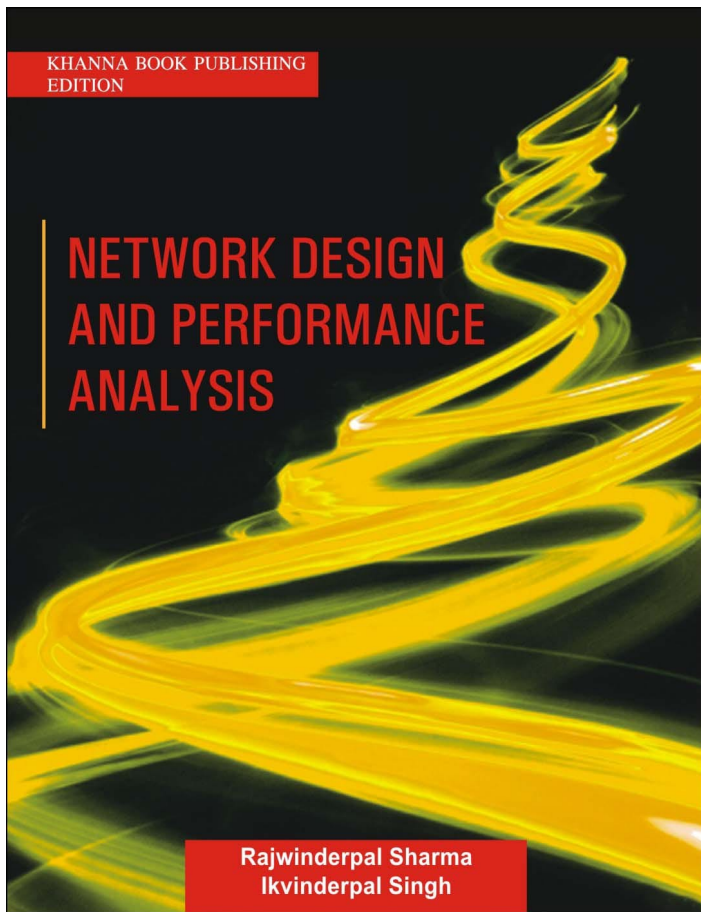
Table of Contents

Chapter 1: Basic Design Data. **Chapter 2:** Engineering Materials. **Chapter 3:** Design for Static Loading. **Chapter 4:** Design for Variable Loading. **Chapter 5:** Riveted Joints. **Chapter 6:** Welded Joints. **Chapter 7:** Screwed Joints. **Chapter 8:** Power Screws. **Chapter 9:** Transmission Shafts. **Chapter 10:** Keys and Couplings. **Chapter 11:** Cotter Joints. **Chapter 12:** Knuckle Joint. **Chapter 13:** Pipe Joints. **Chapter 14:** Mechanical Springs. **Chapter 15:** Flat and V-Belts. **Chapter 16:** Chains and Ropes. **Chapter 17:** Spur Gears. **Chapter 18:** Helical Gears. **Chapter 19:** Bevel Gears. **Chapter 20:** Worm Gears. **Chapter 21:** Sliding Bearings. **Chapter 22:** Rolling Contact Bearings. **Chapter 23:** Flywheel. **Chapter 24:** Clutches and Brakes. **Chapter 25:** Internal Combustion Engine Parts.

Author

Sadhu Singh Dr. Sadhu Singh is a retired professor of Mechanical Engineering of Govind Ballabh Pant university of Agriculture & Technology, Pantnagar. He graduated in Mechanical Engineering with Hons, from Punjab University, Chandigarh, M.Sc. (Mechanical Design & Production Engineering) and Ph.D. from Kurukshetra University, Kurukshetra. His teaching experience spans 15 years at Regional Engineering College (now NIT), Kurukshetra and 19 years at Pantnagar University. He has been Professor & Head, Mechanical Engineering Department and Dean, Faculty of Engineering & Technology at Pantnagar. He has been Director (Colleges). Punjab Technical University, Jalandhar.





Network Design and Performance Analysis

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Product Description

Discusses on the introduction to requirements analysis and specifications. Detailed explanation of the Traffic Engineering & capacity planning. Provides a detailed treatment of network performance modeling. Covers the concept of choosing service provider, vendor and service levels. Design and architecture of access network design. Provides an extensive treatment of backbone network design. Covers the concept of security and designing for network. Detailed explanation of documentation and network management. Demonstrates the concept of the network optimization.



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Chapter 1: Requirements Analysis and Specifications. **Chapter 2:** Traffic Engineering and Capacity Planning. **Chapter 3:** Network Performance Modeling. **Chapter 4:** Technology Comparisons. **Chapter 5:** Choosing Service Providers & Vendors & Service Levels. **Chapter 6:** Access Network Design. **Chapter 7:** Backbone Network Design. **Chapter 8:** Network Security. **Chapter 9:** Documentation and Network Management. **Chapter 10:** Network optimization.

Author

Ikvinderpal Singh Ikvinderpal Singh, is Lecturer of P.G. Deptt. Of Computer Science & Applications, Khalsa College, Amritsar which is a premier institute in North India. He obtained his MCA with distinction from Guru Nanak Dev University, Amritsar. He has always been excellence right from his student career. He has written five books. He brought name for himself when he topped the college in B.Sc. His other areas of interest include Fuzzy systems, digital electronics and java programming.



AICTE अनुशंसित पाठ्यपुस्तक - मॉडल पाठ्यक्रम के अनुसार

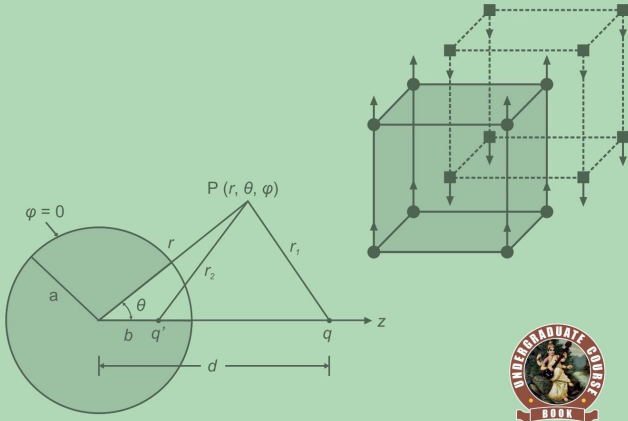
परिणाम आधारित शिक्षा के साथ संरेखित

राष्ट्रीय शिक्षा नीति 2020

भौतिक शास्त्र

वैद्युतचुम्बकीय सिद्धान्त परिचय

लैब मैनुअल सहित



ए. बी. भट्टाचार्य अतनु नाग

Physics (Introduction to Electromagnetic Theory) (with Lab Manual)

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Product Description

Engineering Physics: Introduction to Electromagnetic Theory has been written for the first year students of B. Tech Engineering Degree Courses of all Indian Universities following the guideline and syllabus as recommended by AICTE. The book, written in a very simple and lucid way, will be very much helpful to reinforce understanding of different aspects to meet the engineering student's needs. Writing a text-cum manual of this category poses several challenges providing enough content without sacrificing the essentials, highlighting the key features, presenting in a novel format and building informative assessment. This book on engineering physics will prepare students to apply the knowledge of Electromagnetic Theory to tackle 21st century and onward engineering challenges and address the related questions. Some Salient Features of the Book:

- Expose basic science to the engineering students to the fundamentals of physics and to enable them to get an insight of the subject.
- To develop knowledge on critical questions, solved and supplementary problems covering all types of medium and advanced level problems in a very logical and systematic manner.
- Some essential information for the users under the heading "know More" for clarifying some basic information as well as comprehensive synopsis of formulae for a quick revision of the basic principles.
- Constructive manner of presentation so that an Engineering degree students can prepare to work in different sector or in national laboratories at the very forefront of technology.

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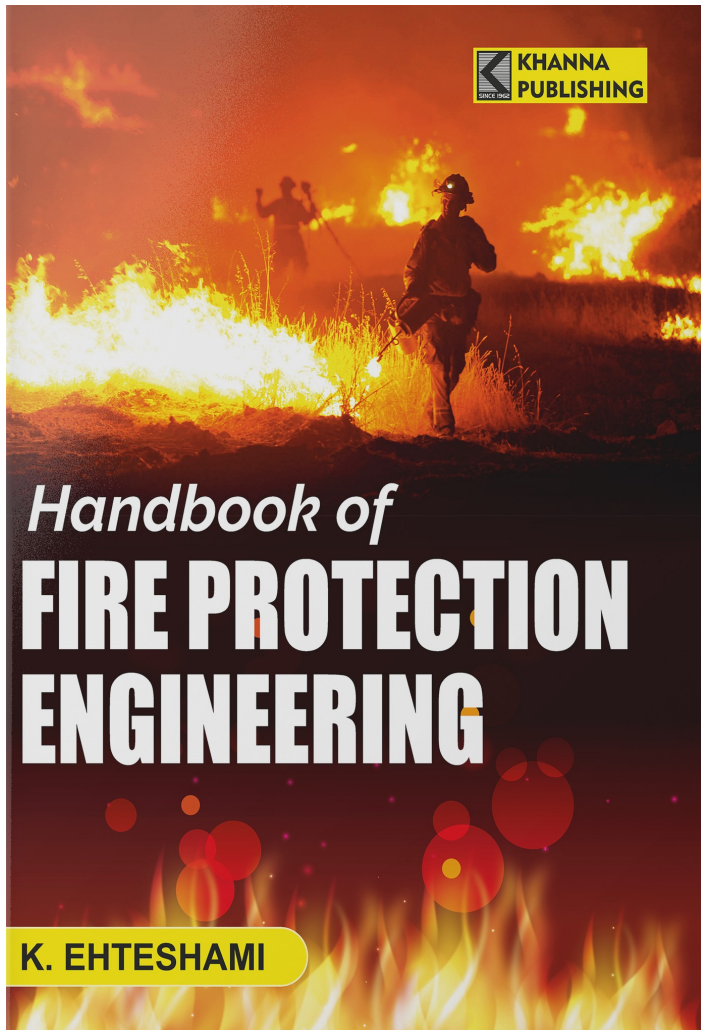


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A. Nag Dr. Atanu Nag did his M. Sc. in 2007 and Ph. D. in 2013 from the University of Kalyani. He has published over 50 Journal papers and 5 books for Science & Engineering students. Presently he is the Head and Associate Professor in the Department of Physics, Modern Institute of Engineering & Technology, Hooghly, West Bengal.





Handbook of Fire Protection Engineering

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This book "Handbook of Fire Protection Engineering" in response to the need for an up-to-date practical handbook which I believe is highly useful in providing help for engineers, architects, contractors, colleges, universities, and regulatory agencies. The direct and complete presentation of materials in this handbook is especially useful in the design and installation of modern fire protection systems. Also, there is a chapter on explosion prevention which is highly useful in woodworking shops, munition making factories, etc.

Each chapter in this book focuses on the major area of concern for fire protection professionals. The chapters are organized and presented in the order that is compatible with the engineering textbook.



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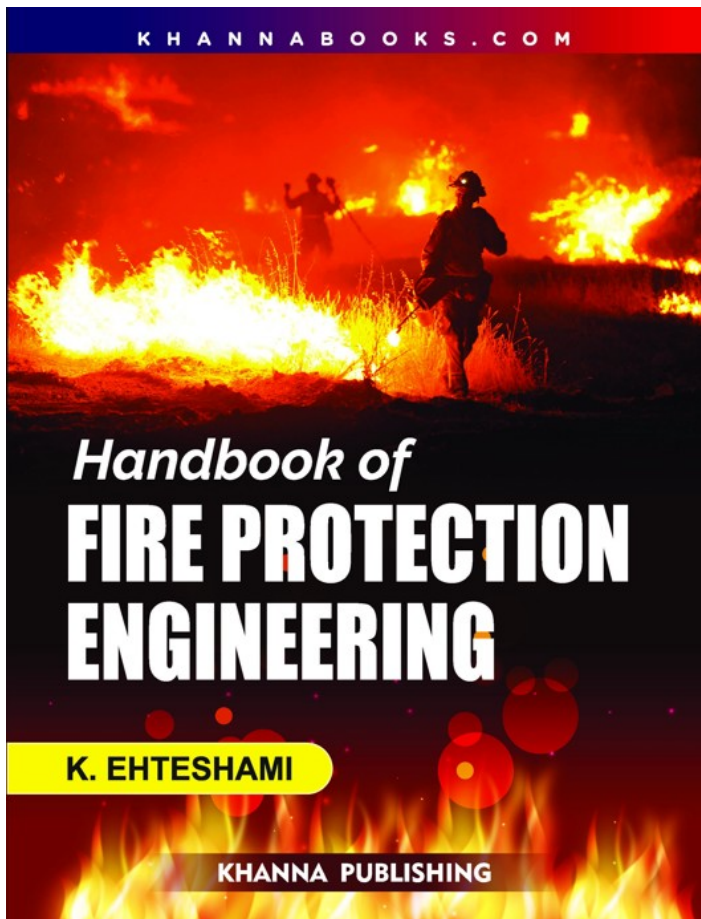
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Handbook of Fire Protection Engineering

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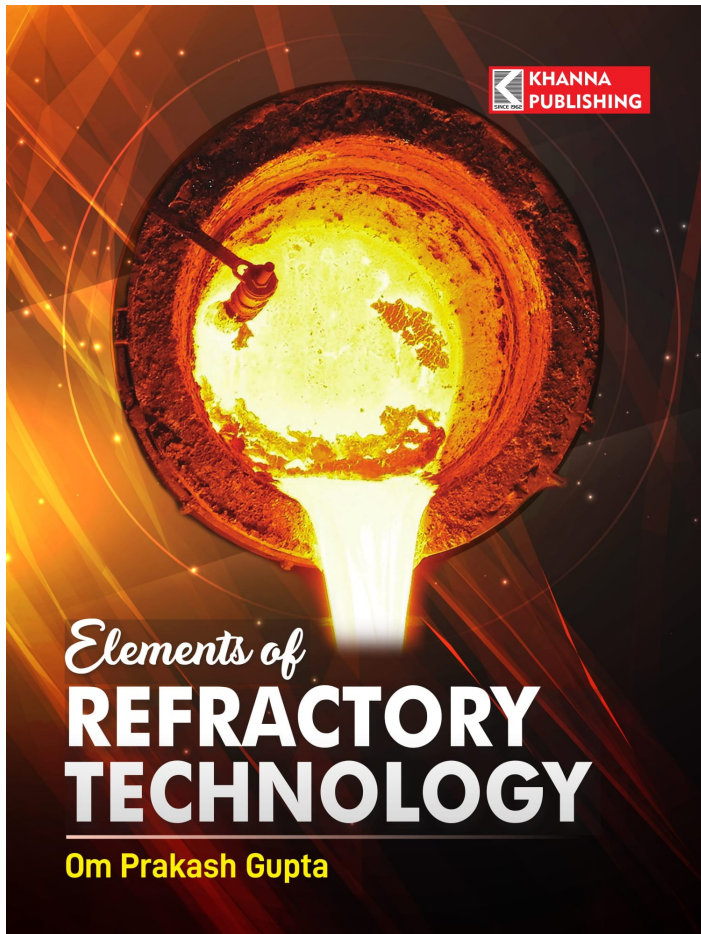


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Elements of Refractory Technology

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Product Description

This book describes the essential features of refractory technology and is useful for degree & diploma courses in engineering. AMIE, AMIIM and IICHE examinations. Short question & answers and multiple choice question & answers drawn from the examination paper of various engineering colleges and professional bodies examinations given at the end of the book enhances its utility for the students.



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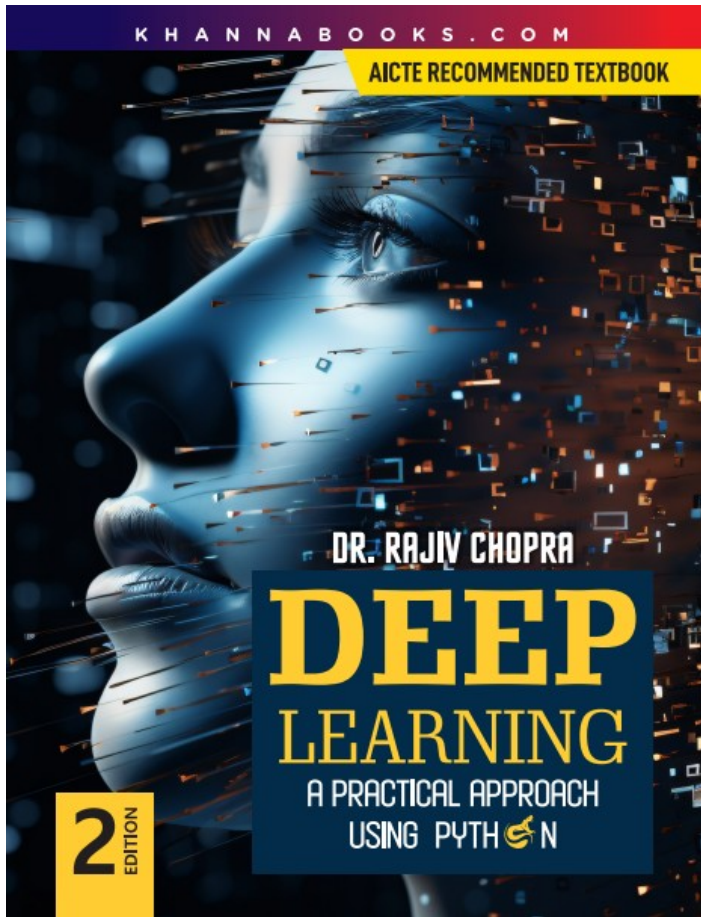
Appendix-D: Technical Data on Refractories.

Appendix-E: References/Bibliography/Further Reading.

Author

Om Prakash Gupta is basically being a chemical engineer, he has a practicing experience of efficient Energy management and HR functions in steel Industry for more than three decades. privileged to be the youngest writer of technical books in the country (for he had written his first book at the age of 24 years while doing M. Tech. at I.I.T Kanpur in 1979), he has authored many frontline books for engineering students. besides, being the regular faculty member in technical courses for Management Trainees (Technical), he has also visited England and France on a study tour sponsored by United Nations Development Program (UNDP) to study the scope of energy conservation in steel plants in 1987.





Deep Learning

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A good book is like a teacher who sits behind the reader and guides him/her accordingly. Deep Learning has been an area of current research. After toiling through the various concepts of Deep Learning, the book slithers around all principles of deep learning. This book highlights in deep the concepts of deep learning so that new projects and researchers can be done. The book serves, both as textbook and as a reference book. Some of the highlights of the book are: Simple Language, Recent Concepts of Machine and Deep Learning explained, MCQ's, Conceptual Short Questions & Answers, Case Studies, Case Tools (like Tensor Flow, H2O etc.)



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